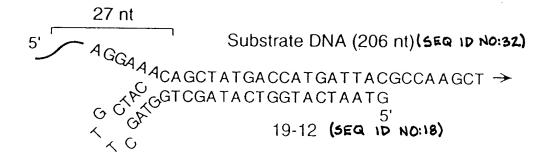


FIG. 12A



Substrate DNA (206 nt) (SEQ ID NO: 32)

AAGCTTGCATGCCTGCAGGTCGACTCTAGAGGATCCC

CCCGTACGGACGTCCAGCTGAGATCTCCTAGG

30-12 (SEQ ID NO: 19)

15 nt

Substrate RNA (46 nt)(SEQ ID NO.161)

5' AAGCUUGCAUGCCUGCAGGUCGACUCUAGAGGAUCCCC 3' 3' CGTACGGACGTCCAGCTGAGATCTCCTAGG 5'

30-0 (SEQ ID NO:20)

FIG. 13A

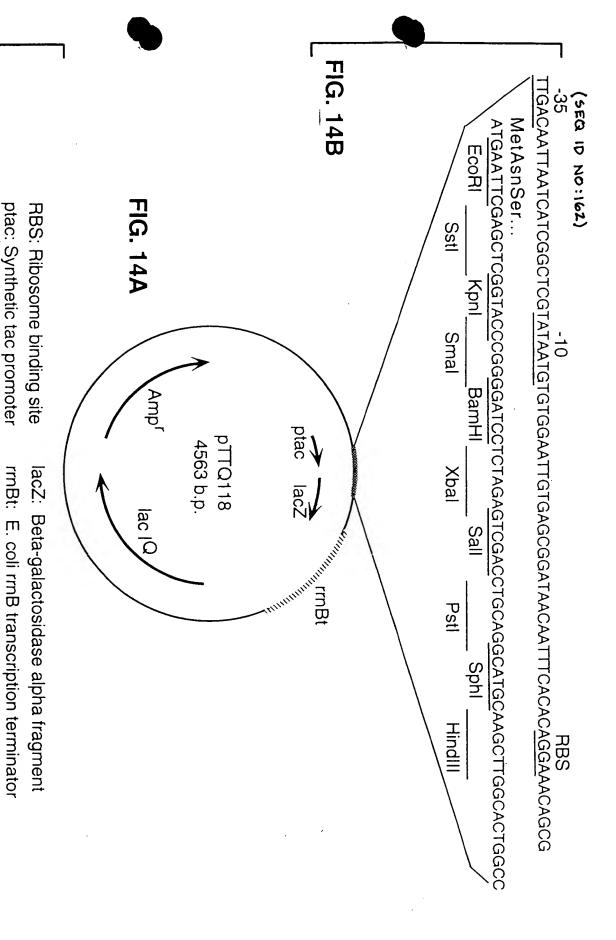


FIG. 14C

lac IQ: Lac repressor gene

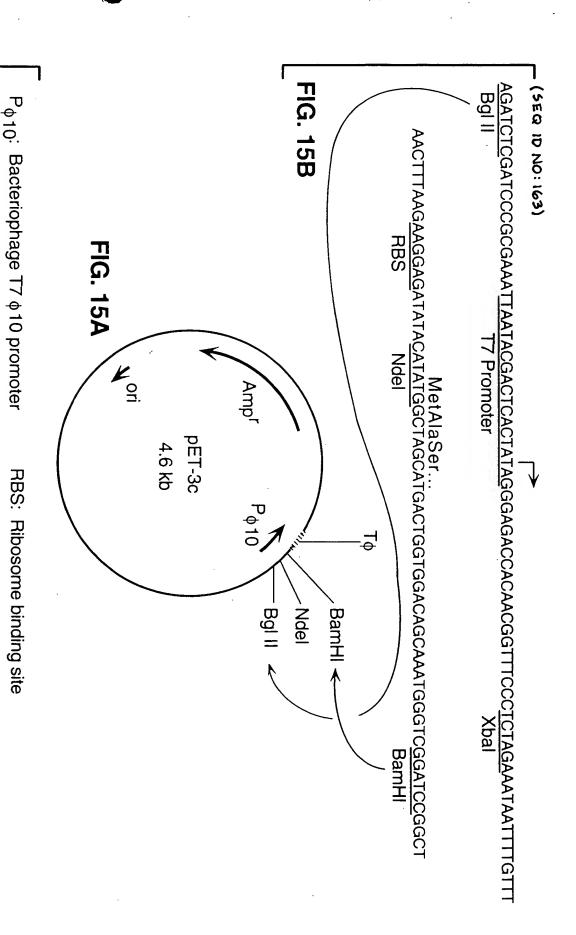
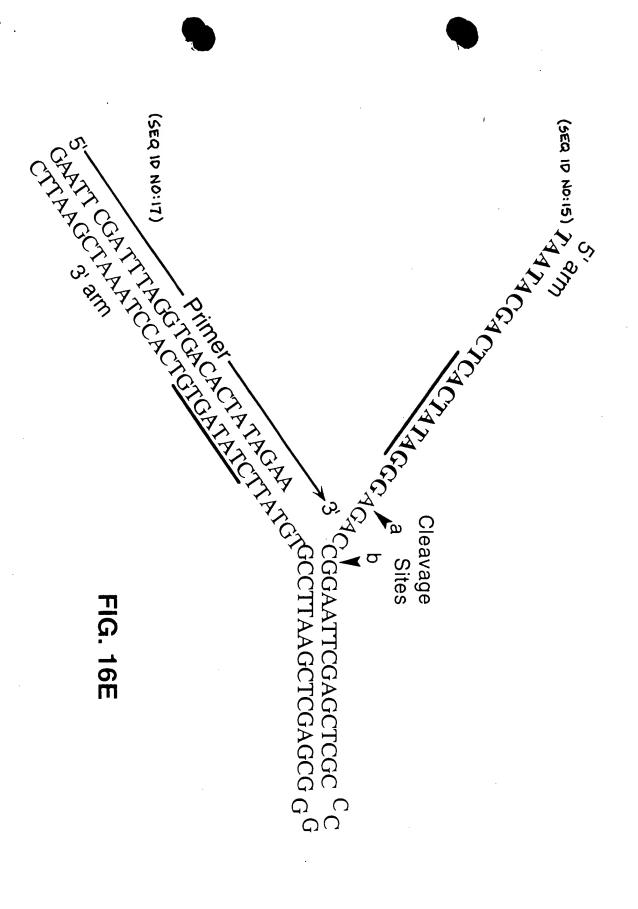


FIG. 15C

Tφ: T7 φ Terminator



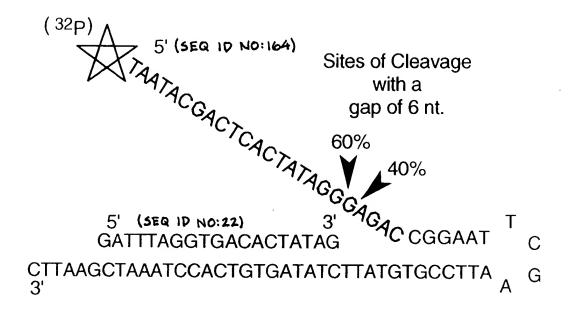


FIG. 19A

```
3' CAAAGACGACACAGCAGAGAAACGGAGAA
                                                                                                                  5' GACGAACAAGCGAGACAGCG 3'
                                                                     FIG. 20D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FIG. 20C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FIG. 20B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SEQ ID NO: 23)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A-Hairpin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FIG. 20A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence of alpha primer: (550 10 No:25)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SEQ ID NO:28)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cleaved A-Hairpin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Predicted cleavage site
                                                                                                                                                                                                                                                                                                                    BsmAl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5' ACACAG GTACC A C
                                                                                                                                                                                                                                                                                                                                                       Rsal
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NIaIII HgiCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T-Hairpin
(SEQ ID NO:24)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5' аптегастателетелетелет
                                                                                                                                                                                                                                                                                                                                                                                                    Rsal/NIalV
                                                                                                                                                                                                                                                                                                                                                Xpn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5' Alpha primer 3' coccomence concentrations of the second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3' СТВСТТВТТСВСТСТВТСВСТВТВТС
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alpha primer 3'
                                                                                                                                                                                                                                        BsmAl (SEQ ID No:24)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SEQ ID NO:27)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cleaved T-Hairpin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cleavage site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5' CCTCTT GTACC A T
(SEQ ID NO:23)
                                                          A-Hairpin
                                                                                                                                                                                                     T-Hairpin
```

Sal I BspM I Acc I Sph I I Hind III IAGAGTCGACCTGCAGGCATGCAAGCTTGAGTATTCTATAGTGTCACCTAAATAGCTTGGCGTAATCATGGTCATAGCTGTTCAGTGTGAAATTGTTAAAATAGCTTGGCGATTAGTACCAGTATCCAAAGCACACTTTAACAATTACCAACCGCATTAGTACCAGTATCGACAAAGCACCTTAACAATTACCAACCGCATTAGTACCAGTATCGACAAAGGACACCTTTAACAATTACCAACCGCATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTATCGAACCGCATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAAATTAGTACCAGTATCGACAAAAGGACACCTTTAACAATTACCAAATTAGTACCAGTATTAGTACCAGTATCGACAAAAGGACCTTTAACAAATTACCAAATTAGTACCAGTATTAGTACCAGTATCGACAAAAGGACCTTTAACAAATTACCAAATTACCAAATTAGTACCAGTATTAGTACCAGTATCGACAAAAGGACCTTTAACAAATTACCAAATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAAATTAGCACAACTTTAACCAAATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGTATTAGTACCAGATATTAGTACCAGATTAGTACCAGATATTAGTACCAGATATTAGTACCAGATATTAGTACCAGATATTAGTACCAGATTAAGTACCAGATATAGTACCAGATATTAGTACCAGATATAGCAAAAAAAA	(SEQ ID No: 165) (SEQ ID No: 165) CGCCAGGGIIIICCCAGICACGACGIIGIAAAACGACGGCCAGIGAAIIGIAAIACGACTCACTATAGGGCGAAITCGAGCTCGGTACCCGGGATCCTCGCGTACCCCGGGATCCTCGCTACCCCGGGATCCTCGAGTCAGAGGTCAGAGGTCAGTGAAAAGGGTCAGGACCATTTTGCTGAGCTCAGTTAAGAGTTCAAGAGTTAAGGGCGAATTTCGAGCCCATTGGGAGCCATTGGAGAGAGA
CACCTAAATAGCTTGGCGTAATCATGGTCATAGGTGGATAT	EcoR I
AIAGCIGIIICCIGIGIGAAAIIGIIA TAICGACAAAGGACACACIIIAACAAI	Ban II Sst I Asp 718 Ava I Kpn I Xma I Sma I I

FIG. 21

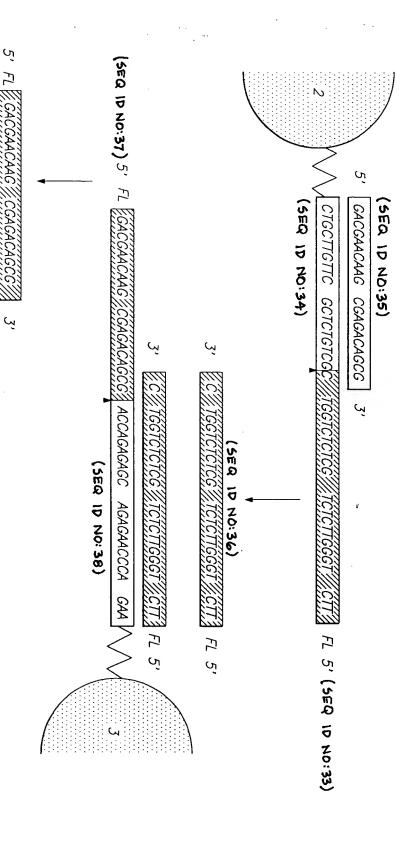


FIG. 23

(SEQ ID No:35)

Cleavage

Cleavage

Sites

Cleavage

Sites

Cleavage

Sites

Cleavage

Sites

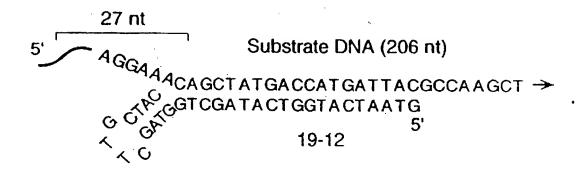
Cleavage

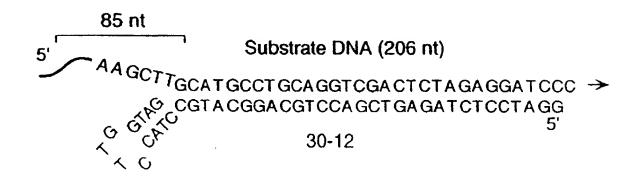
Sites

Cognature Strand

Correction of the control of

FIG. 12A





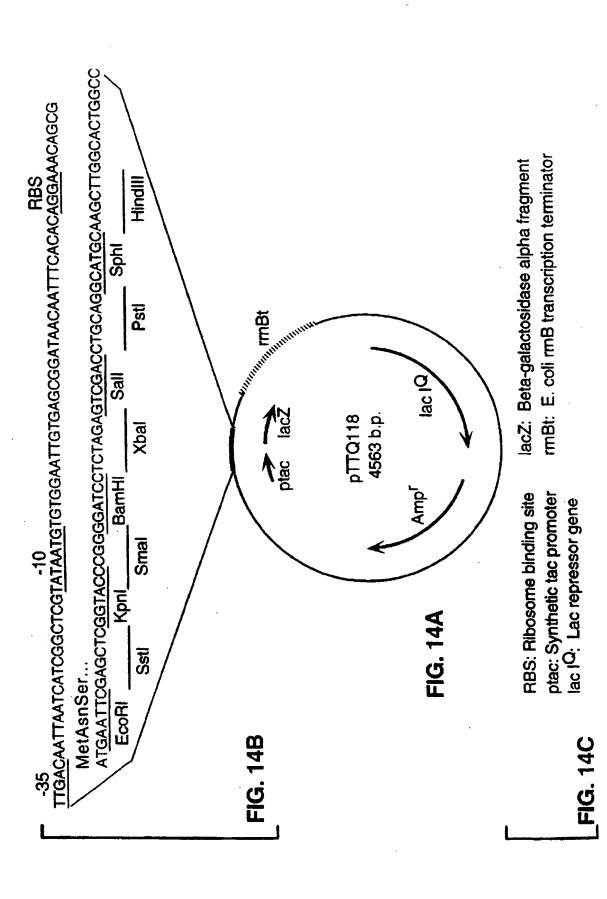
15 nt

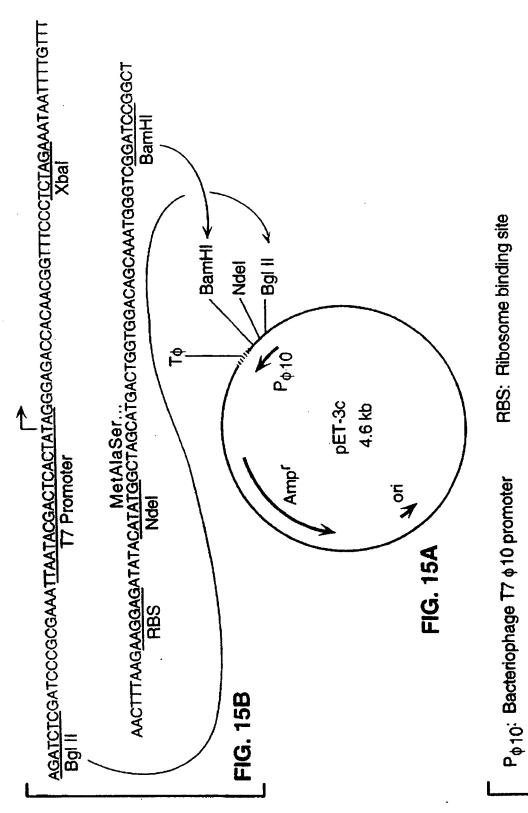
Substrate RNA (46 nt)

5' AAGCUUGCAUGCCUGCAGGUCGACUCUAGAGGAUCCCC 3' 3' CGTACGGACGTCCAGCTGAGATCTCCTAGG 5'

30-0

FIG. 13A





RBS: Ribosome binding site

FIG. 15C

Servin Coltable and Coltable an

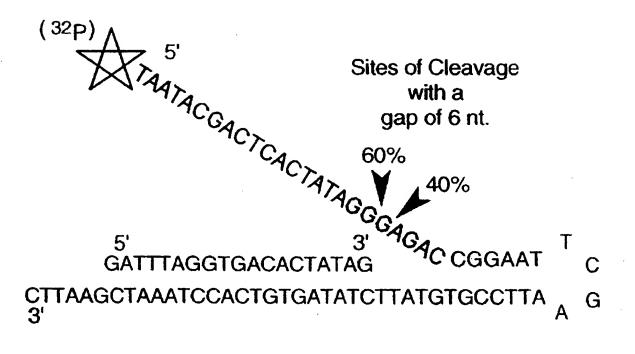


FIG. 19A

A-Hairpin	Predicted cleavage site	T-Hairpin Predicted cleavage site	ا
5' CGGACGAGCGAGACAGCACAG 5' Tau primer 3' 3' CAAAGACGACACAGCAGAAA	s' cggacgaacaagcgagacaggacacaggaccagacagac	s' entretactateatererentaceten e _{trace} ' t <u>5' Alpha primer 3'</u> CATGG _t G 3' et ectretrececte tete	F 0
FIG. 20A			
Sequence of alpha primer: 5' GACGAACAAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGA	ha primer: GACAGCG 3'		
FIG. 20B		:	
5' Tau primer 3' caaagagagagaa FIG. 20C Cleaved A-Hali	5' ACACAG GTACC A C STAGC A CATGG T A CAGG T A CAGAGAGAGAGAGAGA CAGGAGAA CAGGAGAA COLOMA COLO	5' cctctt Alpha primer 3' CATGG GTACC CATGG T GO CTGCTTGTTCGCTCTGTCGCTGTCTC Cleaved T-Hairpin	F 0
L	NIalli HgiCl	HaiCi	
	Mail	Rsal/NialV	
	BsmAl BsmAl	Rpni BsmAl	·
		T-Hairpin	
5' GTTTCTGCTGTGTCC	GTCTCTCTTGCCTCTTGTACCATGTG ICAGAGAGAGGAGAGATGGTACAC	5' GTTTCTGCTGTGTCGTCTCTTTGCCTCTTGTACCATGTGGTACCTGTGTGGCTGTCTGT	
FIG. 20D		A-Hairpin	

)

Ban	COCCAGOSTITICCCAGICACCATGIAAACGACGGCCAGIGAAITGIAAIACGACICACIAIAGGGCGAAITCGAGCICGGIACCCGGGGAICCIC GCGGICCCAAAAGGGICAGIGCIGCAGAITITIGCIGCGGICACIIAACAITAIGCIGAGIGAIAICCCGCIIAAGGICAGGCCAIGGCCCCIAGGAG F Forward — 47 Forward — 77 — 77 — 77 — 77 — 77 — 77 — 77 —	Sal I BspM / Acc I Sph I Hind III Hind I
	CCCCACCGTTTTCCCAGTCACCACGTTGTAAAACGACGGCCAGT GCGGTCCCAAAAGGGTCAGTGCTGCAACATTTTGCTGCCGGTCA	Sal / BspM / Sph / Hind III TAGACTCGACCTGCATCGAAGCTTCATAGTGTC ATCTCAGCTGCACCTACGTATCACAGATATCACAGA ATCTCAGCTGCACCTACGTACGTATCACAGATATCACAGA ATCTCAGCTGCACCTACGTAGATATCACAGA ATCTCAGCTGCACCTACGTACGAACTCATAGATATCACAGA ATCTCAGCTGCACCTACGTACGAACTCATAGATATCACAGA ATCTCAGCTGCACCTACGTACGAACTCATAGATATCACAGA ATCTCAGCTGCACCTACGTACAGATATCACAGA ATCTCAGAGATATCACAGATATACACAGATATCACAGATATACACAGATATCACAGATATACACAGATATCACAGATATACACACAGATATACACACAC

FIG. 21

TCCGCTCACAATTCCACACATACGA
AGGCGAGTGTTAAGGTGTGTTGTATGCT
--48 Reverse
--206

